

SECTION 01010 SUMMARY OF WORK

PART 1 GENERAL

1.1 SECTION INCLUDES

This section describes the project and the work to be performed under this Contract. Detailed requirements and extent of work are stated in applicable Specification sections and shown on the Drawings.

1.2 ORGANIZATION AND INTERPRETATION OF CONTRACT DOCUMENTS

- A. The ENGINEER is the only party responsible for interpreting the contract documents. In case of conflicts within these specifications or between the specifications and the drawings, CONTRACTOR shall notify the ENGINEER immediately, the ENGINEER shall determine the applicable requirements.
- B. Piping work shown on the Drawings is intended to be depictive and may not be an exact and complete representation of the actual finished work. Include fittings, joints, supports, nuts, bolts, and other accessories required to provide complete and satisfactory piping systems, as specified, even though some items may not be specifically shown on the Drawings.
- C. A part of the work that is necessary or required to make each installation satisfactory and operable for its intended purpose, even though it is not specifically included in the Specifications or on the Drawings, shall be performed as incidental work as if it were described in the Specifications and shown on the Drawings without additional cost to the OWNER.

1.3 DESCRIPTION OF PROJECT

- A. The work for this project includes providing all labor, supervision, materials, tools, and equipment necessary to construct two Leachate Pump Stations, a Force Main and related work as shown on the Drawings and described in these specifications. The work will take place at Loudoun County Solid Waste Management Facility (LCSWMF), which is located on Route 621, approximately 5 miles southeast of Leesburg, Virginia and on sewer easements on Loudoun County School Board Property as shown on the plans. Copies of all easements will be made available to the Contractor. The work includes, but is not limited to, the following major work items:
 - 1. Construction of two leachate pump stations complete including the pump station, influent piping, overflow piping, electrical equipment, and accessories as shown on the drawings. The Air Stripper Influent Leachate Pump Station will pump influent leachate through approximately 48 feet

of 3 inch HDPE force main to existing Air Stripper influent piping box where chemicals are added. The Air Stripper Effluent Pump Station will pump leachate through a new meter vault to the force main described in item 2 below.

2. Construction of approximately 50 feet of 3 inch HDPE force main as shown on the drawings.
3. Installation of a SCADA system.
4. Replace two existing 8 inch gate valves
5. Provide a biooxide odor control system complete as shown on the drawings
6. Replace the Existing T-1 leachate tank submersible pump and cleanout sediment and debris in existing T-1 and T-2 tanks which each hold 40,000 gallons of leachate after the two new pump stations and the force main are placed in service.
7. Installation of temporary erosion and sediment control measures.
8. Drilling, removal, and disposal/stockpiling of rock and unsuitable material, when encountered.
9. Clearing existing trees (only when directed by the ENGINEER)
10. Installation of electrical equipment and wiring associated with the pump station facilities.
11. Topsoil stripping for use in areas of permanent seeding to restore disturbed areas.
12. Preparation of as-built Drawings as described herein signed and sealed by a professional land surveyor licensed in the Commonwealth of Virginia.

B. The OWNER will arrange and furnish the following:

1. Designated stockpile areas for excavated topsoil, excavated soils, rock, unsuitable material, and debris from construction.
2. Designated staging area with the locations of any utilities that may be available for CONTRACTOR's use.

1.4 SEQUENCE OF WORK

A. Operation and Shutdown of Existing Facilities:

1. Continuous operation of the OWNER's facilities is of critical importance. The CONTRACTOR shall schedule and conduct activities to enable existing facilities and environmental systems to operate continuously, unless otherwise specified.
2. The CONTRACTOR shall allow continuous operation of leachate collection facilities. Any damage to the existing leachate collection features must be repaired immediately to its previous condition. Damaged landfill gas or groundwater monitoring wells shall be abandoned and replaced by the County in accordance with its Virginia Solid Waste Operating Permit No.1. Contractor shall reimburse the

County for all costs associated with abandonment and replacement of damaged wells. From the time that any structure is damaged until such time as it has been completely restored to its previous condition, the CONTRACTOR shall provide a temporary measure by which the affected system is allowed to continue to operate.

3. The OWNER's facility must remain completely secure at all times. Any damage to the existing fencing at the facility caused by the CONTRACTOR's activities must be repaired immediately. From the time that the fencing is damaged until such time as it has been completely restored to its previous condition, the CONTRACTOR shall provide a continuous attendant at the damage location to ensure the security of the facility.
4. Landfill operations and customer access to the active areas shall not be interrupted.

B. Modifications to Existing Facilities: Where existing facilities must be modified or shut down during the course of work, the CONTRACTOR shall obtain the OWNER's review and acceptance of submittals for temporary shutdown, demolition, modification, corrections between new and existing work, and other related work. This work shall conform to other sections as applicable.

C. Construction Phasing:

The CONTRACTOR shall install the erosion and sediment control measures as shown on the Drawings and required in the approved erosion and sediment control plan.

D. Time of Work:

1. **Allowable working hours with construction equipment/traffic will be 7:00 a.m. to 5:00 p.m., Monday through Saturday. However, emergency work outside of these hours may be performed with prior permission from the OWNER. CONTRACTOR shall schedule all deliveries of construction materials and equipment between 8:00 a.m. and 4:00 p.m.**
2. **No construction traffic associated with this project shall utilize Route 621 during the time periods of one (1) hour prior to or one (1) hour after normal school hours at J. L. Simpson Middle School. Normal working hours for the J. L. Simpson Middle School are 8:40 AM to 3:28 PM. Work done on Loudoun County School Board Property will be done when allowed by the School Board.**

1.5 CONTRACTOR AND MAJOR SUBCONTRACTORS' QUALIFICATIONS REQUIREMENTS

CONTRACTOR shall submit an EXPERIENCE STATEMENTS indicating that his firm and the proposed QC observation and testing firm, laboratory and surveying firm have successfully provided testing services for large earthwork construction projects of similar size and complexity, to those described in the Contract Documents for at least three (3) projects in the last five (5) years.

A. CONTRACTOR'S EXPERIENCE STATEMENT.

1. CONTRACTOR shall submit information demonstrating successful completion by 1) his firm, 2) his proposed Project Manager, and 3) his proposed project-specific Superintendent of at least three (3) similar projects in the last five (5) years with similar material specifications to those proposed herein.
2. This information shall be submitted in a separate CONTRACTOR EXPERIENCE STATEMENT along with the Form of Bid. Please describe the scope of work for such similar projects; owners' names; site locations; project cost; beginning and end dates of construction; and any available site pictures.
3. Please furnish, a separate EXPERIENCE STATEMENT for the project manager and the project superintendent; a list of identified subcontractors; a list of references; and a contact person. Failure to submit the EXPERIENCE STATEMENTS or to meet the experience requirements may result in rejection of the Form of Bid.

B. CONTRACTOR'S WORK PLAN

Bidder shall furnish a separate WORK PLAN that includes a list of all equipment proposed to perform the work outlined in Paragraph 1.3.A of this section. The WORK PLAN shall include a description of the proposed work sequencing and approach, in order to complete the work within the allotted Contract Time. The WORK PLAN shall be submitted by the apparent low bidder within seven (7) days of bid opening. The OWNER and ENGINEER will review the WORK PLAN to determine if it is reasonably achievable considering, the complexity of the Work and the Contract Time. Failure to submit the WORK PLAN within the required time or if it does not meet approval of the OWNER and ENGINEER may result in rejection of the Bid.

C. QC Testing Firm and Laboratory EXPERIENCE STATEMENT.

CONTRACTOR shall submit an EXPERIENCE STATEMENT indicating that the proposed QC testing firm and laboratory have successfully provided observation, testing, and documentation for similar construction projects of similar size and complexity, with similar QC requirements to those described herein for at least three (3) projects in the last five (5) years.

- D. Surveying Firm EXPERIENCE STATEMENT. CONTRACTOR shall submit an EXPERIENCE STATEMENT indicating that the proposed surveying firm has successfully provided surveying and as-built documentation for similar construction projects of similar size and complexity, with similar as-built requirements to those described herein for at least three (3) projects in the last five (5) years.
- E. Qualification information shall be submitted with the Form of Bid, including references and contact information. Failure to submit the EXPERIENCE STATEMENTS required above or to meet the experience requirement may result in rejection of the Bid.

1.6 OPERATION AND MAINTENANCE MANUALS

- A. The Contractor shall furnish four (4) copies for each pump station of complete instruction manuals in 3-ring binders containing instructions for installation, operation, maintenance, and lubrication of all pumps, motors, electrical support, and valves, provided. All copies shall be submitted to the Engineer. Following approval, the Engineer will forward two (2) copies to the Owner. Wherever in the detailed section of these specifications, reference is made to provision of operation and maintenance manuals, it shall be understood that five copies are to be provided as specified herein. All final equipment O&M manuals and a spare parts inventory list for each pump station must be submitted before the Engineer will grant substantial completion of the project.
- B. Each instruction manual shall include but not be limited to the following: description of the function of each principal component of the system; installation instructions; procedures for starting; procedure for operating; shutdown instruction; maintenance and overhaul instruction which shall include detailed assembly drawings with parts numbers, parts list, and complete instruction for ordering spare parts; lubrication instruction which shall list points to be greased or oiled, shall recommend type, grade, and temperature range of lubricants, and shall recommend frequency of lubrication; safety precautions, diagrams, and illustration; test procedures; and performance data. It is intended that the manuals shall be complete in all respects for all equipment, controls, accessories and associated appurtenances. The Contractor shall include as-built electrical and control schematics for each pump station with the O&M Manual submittal.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION